

200Pb (Continued)

6680.6+u 12, [H] γ_{6399+u} 281.35 ($\dagger_{\gamma} 100$)	
6799.8 16, (*), [H] γ_{6278} 521.610 ($\dagger_{\gamma} 28$ 12) γ_{6161} 638.93 ($\dagger_{\gamma} 100$ 28) γ_{6075} 724.34 ($\dagger_{\gamma} 80$ 20) (E2) γ_{5801} 998.610 ($\dagger_{\gamma} 15$ 8)	
6802.5+y 9, J+9, [H] γ_{6322+y} 480.63 ($\dagger_{\gamma} 100$) M1(+E2)	
6897.9+z 5, J+3, [H] γ_{6615+z} 283.33 ($\dagger_{\gamma} 100$) M1(+E2)	
6948.1 18, (25'), 58.4 ns, [H] γ_{6800} 148.37 ($\dagger_{\gamma} 100$) (E1)	
7015.2+u 13, [H] γ_{6681+u} 334.65 ($\dagger_{\gamma} 100$)	
7227.5+z 5, J+4, [H] γ_{6889+z} 329.63 ($\dagger_{\gamma} 100$) M1(+E2)	
7335.5+y 10, J+10, [H] γ_{6803+y} 533.03 ($\dagger_{\gamma} 100$) M1(+E2) γ_{6322+y} 1014.2	
7396.6+u 14, [H] γ_{7015+u} 381.45 ($\dagger_{\gamma} 100$)	
7607.6+z 6, J+5, [H] γ_{7228+z} 380.13 ($\dagger_{\gamma} 100$) M1(+E2)	
7820.1+u 15, [H] γ_{7397+u} 423.55 ($\dagger_{\gamma} 100$)	
7917.6+y 11, J+11, [H] γ_{7336+y} 582.15 ($\dagger_{\gamma} 100$) M1(+E2)	
8046.4+z 8, J+6, [H] γ_{7608+z} 438.85 ($\dagger_{\gamma} 100$) M1(+E2)	
8170.3+u 20, [H] γ_{6948} 1222.210 ($\dagger_{\gamma} 100$)	
8436.7+u 18, [H] γ_{6948} 1488.65 ($\dagger_{\gamma} 100$)	
8550.0+y 14, J+12, [H] γ_{7918+y} 632.410 ($\dagger_{\gamma} 100$) γ_{7336+y} 1214.3	
8630.3+u 21, [H] γ_{8437} 193.610 ($\dagger_{\gamma} 100$)	
γ from ²⁰⁰ Pb (21.5 h) EC decay <for Iγ% multiply by 0.03338>	
32.743 ($\dagger_{\gamma} 36$ 6) M1, 109.543 ($\dagger_{\gamma} 14.5$ 20) M1, 142.293 ($\dagger_{\gamma} 95$ 5) M1, 147.623 ($\dagger_{\gamma} 1133$ 30) E2, 155.2910 (?) ($\dagger_{\gamma} 1.4$ 5), 161.354 ($\dagger_{\gamma} 9.1$ 10) M1, 193.3910 ($\dagger_{\gamma} 1.0$ 4), 235.623 ($\dagger_{\gamma} 129$ 4) M1, 257.173 ($\dagger_{\gamma} 134$ 4) M1+E2: δ=1.1 1, 268.383 ($\dagger_{\gamma} 119$ 5) M1, 289.1110 ($\dagger_{\gamma} 32$ 10) M1, 289.9410 ($\dagger_{\gamma} 52$ 10) M1, 302.894 ($\dagger_{\gamma} 5.0$ 10) M1, 315.3813 ($\dagger_{\gamma} 6.7$ 10) (M1), 348.238 ($\dagger_{\gamma} 4.8$ 10), 377.925 ($\dagger_{\gamma} 0.8$ 3), 450.535 ($\dagger_{\gamma} 100$) M1, 457.7010 ($\dagger_{\gamma} 3.5$ 6), 525.546 ($\dagger_{\gamma} 12.6$ 10), 605.446 ($\dagger_{\gamma} 16.9$ 12) M1.	

200Bi

Δ: -20360 90 S_n: 7540 100 S_p: 2420 110 Q_{EC}: 5890 90 Q_α: (4680)

Populating Reactions and Decay Modes

A ²⁰⁰Po EC decay (78LiZM)

B ²⁰⁴At α decay (9.2 m) (61La02, 63Ho18, 67Tr06, 68Go12, 71Ma78, 73Ry07, 74Ho27, 80Sc26, 81Va27, 93Wa04)

C ²⁰⁰Bi IT decay (0.40 s)

D ¹⁸⁶W(¹⁹F,5nγ) (94Da17)

E ¹⁹³Ir(¹²C,5nγ) (72Ha73)

Levels and γ-ray branchings:

0, 7+, 36.4 5 m, [ABCDE], %EC+%β+=100

=100, (2+), 31.2 m, [A], %EC>90, %IT<10

53.30+x 9, [A] γ_{100} 53.37 ($\dagger_{\gamma} 100$)

428.20 10, (10-), 0.40 5 s, [C], %IT=100 γ_0 428.21 ($\dagger_{\gamma} 100$) (E3)

430.20+x 10, [AD] γ_{100} 430.31 ($\dagger_{\gamma} 100$)

575.50+x 12, [A] γ_{430+x} 145.41 ($\dagger_{\gamma} 100$ 5) γ_{100} 575.12 ($\dagger_{\gamma} 32$ 5)

671.00+x 8, (1), [A] γ_{53-x} 617.71 ($\dagger_{\gamma} 58$ 3) γ_{100} 671.01 ($\dagger_{\gamma} 100$ 5)

695.11+x 8, [A] γ_{100} 694.81 ($\dagger_{\gamma} 100$)

818.60+x 12, [A] γ_{671+x} 147.61 ($\dagger_{\gamma} 100$ 5) γ_{100} 818.8 ($\dagger_{\gamma} 13$ 2)

850.00+x 9, (1), [A] γ_{695+x} 154.43 (?) ($\dagger_{\gamma} 4.3$ 4) γ_{53+x} 796.71 ($\dagger_{\gamma} 100$ 5)

γ_{100} 850.01 ($\dagger_{\gamma} 63$ 3)

876.08+x 11, [A] γ_{671+x} 205.01 ($\dagger_{\gamma} 83$ 4) γ_{100} 876.53 ($\dagger_{\gamma} 100$ 6)

931.3+x 3, [A] γ_{671+x} 260.33 ($\dagger_{\gamma} 100$)

999.01+x 10, [A] γ_{671+x} 328.11 ($\dagger_{\gamma} 100$ 5) γ_{53+x} 945.71 ($\dagger_{\gamma} 42$ 4)

1127.00+x 16, (?), [A] γ_{576+x} 551.51 ($\dagger_{\gamma} 100$)

1253.00+x 14, [A] γ_{819+x} 434.41 ($\dagger_{\gamma} 100$ 5) γ_{671+x} 582.02 ($\dagger_{\gamma} 5.9$ 11)

1271.52+x 11, [A] γ_{999+x} 272.61 ($\dagger_{\gamma} 65$ 6) γ_{876+x} 395.41 ($\dagger_{\gamma} 71$ 6) γ_{100} 1271.32 ($\dagger_{\gamma} 100$ 6)

1285.52+x 8, [A] γ_{695+x} 590.21 ($\dagger_{\gamma} 85$ 3) γ_{100} 1285.81 ($\dagger_{\gamma} 100$ 6)

1352.10+x 19, (?), [A] γ_{1127+x} 225.11 ($\dagger_{\gamma} 100$)

1387.50+x 15, [A] γ_{1286+x} 102.32 ($\dagger_{\gamma} 26$ 5) γ_{695+x} 692.02 ($\dagger_{\gamma} 100$ 27)

γ_{100} 1387.84 ($\dagger_{\gamma} 100$)

1401.50+x 13, (?), [A] γ_{671+x} 730.51 ($\dagger_{\gamma} 100$)

1424.1+x 6, [A] γ_{931+x} 492.85

0+y, J, [D]

193.0+y 10, J+1, [D] γ_{0+y} 193.1 (M1)

431.0+y 15, J+2 γ_{193+y} 238.1 (M1)

720.0+y 18, J+3 γ_{431+y} 289.1 (M1)

1056.0+y 20, J+4 γ_{720+y} 336.1 (M1)

1432.0+y 23, J+5 γ_{1056+y} 376.1 (M1)

1855.0+y 25, J+6, [D] γ_{1432+y} 423.1 (M1)

0+z, J

199.0+z 5, J+1 γ_{0+z} 199.05 (M1)

446.2+z 7, J+2 γ_{199+z} 247.25 (M1)

740.7+z 9, J+3 γ_{446+z} 294.55 (M1)

1083.8+z 10, J+4 γ_{741+z} 343.15 (M1)

1475.2+z 12, J+5 γ_{1084+z} 391.45 (M1)

1918.8+z 13, J+6 γ_{1475+z} 443.65 (M1)

2417.8+z 16, J+7 γ_{1919+z} 499.0 (M1)

2970.7+z 17, J+8 γ_{2418+z} 552.95 (M1)

3577.7+z 18, J+9 γ_{2971+z} 607.05 (M1)

γ from ²⁰⁰Bi (0.40 s) IT decay <for Iγ% multiply by 1.0>

428.2.1 ($\dagger_{\gamma} 85$) (E3).

γ (²⁰⁰Pb) from ²⁰⁰Bi (31 m) EC+β⁺ decay <for Iγ% multiply by 0.915>

245.3.1 (?) ($\dagger_{\gamma} 5.1$ 3), 273 ($\dagger_{\gamma} <0.5$), 419.8.1 ($\dagger_{\gamma} 23.7$ 12), 462.4.1 ($\dagger_{\gamma} 41.6$ 22), 712.7.1

($\dagger_{\gamma} 1.8$ 1), 1026.8 ($\dagger_{\gamma} 100$ 5), 1625.5.9 E0, 1739.5.2 ($\dagger_{\gamma} 4.3$ 2), 1867.0.9 E0.

γ (²⁰⁰Pb) from ²⁰⁰Bi (36.4 m) EC+β⁺ decay <for Iγ% multiply by 1.0>

29.5.10, 83.8.1 (?) ($\dagger_{\gamma} 0.44$ 22) E2, 98.1.3 ($\dagger_{\gamma} 0.3$ 2) M1, 103.25.17 ($\dagger_{\gamma} 1.3$ 2) M1,

114.40.16 ($\dagger_{\gamma} 1.2$ 2) M1, 201.11.17 ($\dagger_{\gamma} 0.9$ 2) M1, 245.15.13 ($\dagger_{\gamma} 4.6$ 3) E2, 273.39.20

($\dagger_{\gamma} 1.2$ 2) M1, 294.4.2 ($\dagger_{\gamma} 0.9$ 3) M1, 303.41.18 ($\dagger_{\gamma} 2.2$ 2) M1, 344.6 ($\dagger_{\gamma} \approx 0.5$),

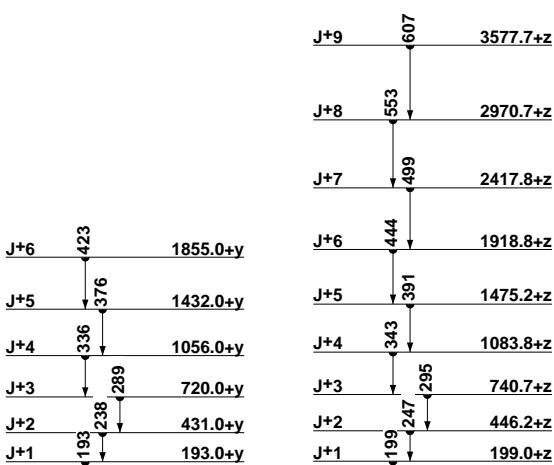
348.33.17 ($\dagger_{\gamma} 2.5$ 3) (M1+E2), 353.6(u) ($\dagger_{\gamma} 0.4$), 419.77.13 ($\dagger_{\gamma} 91$ 3) E1, 462.34.13

($\dagger_{\gamma} 98$ 3) E2, 480.32 ($\dagger_{\gamma} 2.3$ 2) M1, 494.32(u) ($\dagger_{\gamma} 1.2$ 1) (M1), 539.23(u) ($\dagger_{\gamma} 1.7$ 2),

545.50.17 ($\dagger_{\gamma} 4.5$ 5) M1, 642.78 ($\dagger_{\gamma} 0.8$ 2), 647.8.4 ($\dagger_{\gamma} 2.6$ 2) M1, 665 ($\dagger_{\gamma} <0.4$),

781.05(u) ($\dagger_{\gamma} 2.0$ 3), 788.77 ($\dagger_{\gamma} 1.0$ 2), 811.07(u) ($\dagger_{\gamma} 0.7$), 836.95 ($\dagger_{\gamma} \approx 1.5$),

902.6(u) ($\dagger_{\gamma} 1$), 931.65 ($\dagger_{\gamma} 2.6$ 4), 935.17 ($\dagger_{\gamma} 1.4$ 3), 979.8(u) ($\dagger_{\gamma} 0.7$), 992.9(u) ($\dagger_{\gamma} 2.9$), 1026.49.17 ($\dagger_{\gamma} 100$) E2, 1101.4(u) ($\dagger_{\gamma} 1.1$).



200Bi

Δ: (-17010) S_n: (9800) S_p: (3410) Q_{EC}: (3350) Q_α: 5981.5 20

Populating Reactions and Decay Modes

A ²⁰⁰At EC decay (43 s) (86Ma31, 92Hu04)

B ²⁰⁰At EC decay (47 s) (86Ma31, 92Hu04)

C ²⁰⁴Rn α decay (67Va17, 71Ho01, 73Ry07, 93Wa04)

D ¹⁸⁴W(²⁰Ne,4nγ) (85We05, 86Ma31, 90Ma14)

E ¹⁹⁴Pt(¹²C,6nγ) (85We05, 86Ma31, 90Ma14)

F ¹⁹¹Ir(¹⁴N,5nγ) (72Na02, 90Ma14)

Levels and γ-ray branchings:

0, 0+, 11.5 1 m, [ACDEF], %EC+%β+=88.9 3, %α=11.1 3

665.90 10, 2+, [ADEF] γ_0 665.9.1 ($\dagger_{\gamma} 100$) E2

1277.00 15, 4+, [ADEF] γ_{666} 611.1.1 ($\dagger_{\gamma} 100$) E2

1761.48 17, 6+, [ADEF] γ_{1277} 484.5.1 ($\dagger_{\gamma} 100$) E2

1773.69 21, 8+, 61.3 ns, [ADEF], μ=+7.44 16, Q=1.38 7 γ_{1761} 12.2.2 ($\dagger_{\gamma} 100$)

1811.52 17, 5-, <10 ns, [ADEF] γ_{1277} 534.5.1 ($\dagger_{\gamma} 100$) E1

1842.00 25, (3,4)+, [A] γ_{1277} 565.0.2 ($\dagger_{\gamma} 100$) M1 γ_{666} 1177.15

2135.45 18, 7-, <10 ns, [ADE] γ_{1812} 323.9.1 ($\dagger_{\gamma} 45$ 2) E2 γ_{1774} 361.6.2 ($\dagger_{\gamma} 13$ 2)

E1 γ_{1761} 374.0.1 ($\dagger_{\gamma} 100$) E1

2236.11 11, (?), [E] γ_{2135} 100.7.10 ($\dagger_{\gamma} 100$) (M1)

2261.44 22, 9-, <2 ns, [ADE] γ_{2135} 125.7.3 ($\dagger_{\gamma} 17$ 11) E2 γ_{1774} 487.8.1 ($\dagger_{\gamma} 100$ 6)

E1